



# FACT SHEET

## Dutch Boy Site Chicago, Illinois

January 1997

### BACKGROUND

The Dutch Boy site consists of an approximately 5.2-acre vacant property located at 12000 to 12054 South Peoria Street and 901 to 935 West 120th Street in Chicago, Illinois. NL Industries, Inc. (NL) formerly owned the property, operating a facility that manufactured lead-based paints at the site.

Much of the property consists of cement-paved yard areas, with sporadic areas of open soil and vegetation. A three-story mill building on the east-central side of the property was demolished in May and June of 1996. In previous sampling at the Dutch Boy site, total lead was detected at concentrations ranging as high as 50,000 milligrams per kilogram.

On March 26, 1996, the United States Environmental Protection Agency (U.S. EPA) issued a Unilateral Administrative Order (UAO), requiring NL to investigate site-related contamination and to conduct appropriate removal activities.

### THE SAMPLING AND ANALYSIS PLAN

In accordance with the requirements of the UAO, NL hired an environmental consultant to develop a Sampling and Analysis Plan (SAP) for the Dutch Boy site. NL's SAP was submitted to U.S. EPA for review, and the revised plan was approved on December 11, 1996. The SAP has three objectives:

- 1) To identify the vertical and horizontal extent of on-site soil contamination;
- 2) To determine the background concentrations of lead in soils in the vicinity of the site; and
- 3) To determine whether lead from former site activities is present beyond the boundaries of the site; and, if so, to determine the extent of that contamination.

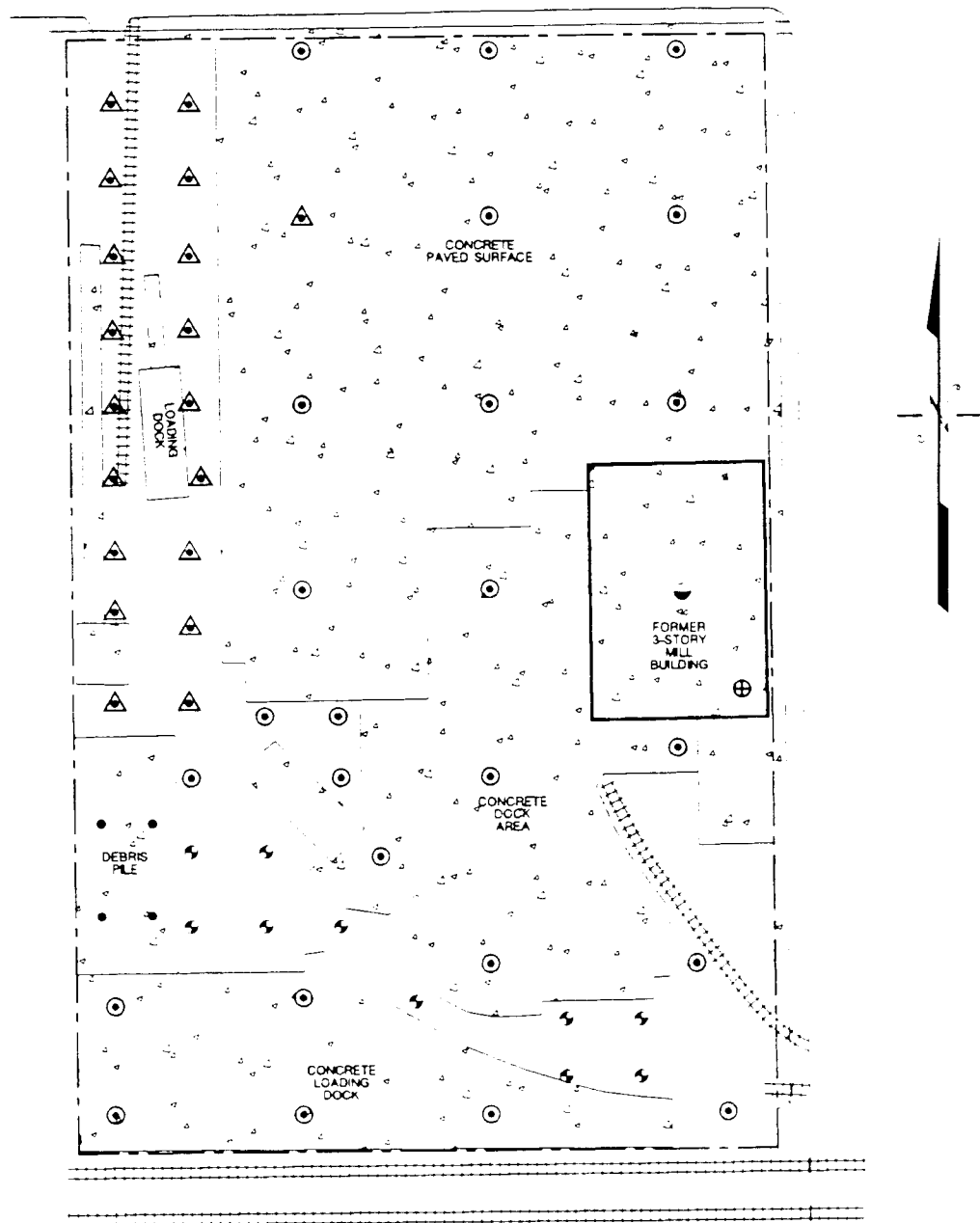
Sampling will be conducted at on-site and off-site locations. On-site samples will be collected from soil and from debris in a pile on a former loading dock in the southwestern part of the site. Off-site soil samples will be collected from the parkways in the vicinity of the site and from adjacent properties. Details regarding the sampling program and the parameters for chemical analysis are presented in a summary on the reverse side of this fact sheet. Figures 1, 2, and 3, showing sampling locations, are included as attachments to this fact sheet.

### TIMETABLE FOR SAMPLING AND RESULTS

Due to inclement weather and the need to obtain access to properties, on-site and off-site sampling has been delayed by approximately 1 to 2 months. A portion of on-site sampling took place from December 16 to December 21, 1996. The remainder of the on-site and off-site sampling is scheduled to take place between January and March 1997. The results of the SAP will then be used as the basis for an Extent-of-Contamination (EOC) Report, which is scheduled to be submitted to U.S. EPA soon after sampling is completed. Following U.S. EPA review, the EOC Report will be placed in the information repositories. The results of the sampling will then be used to develop a Risk Management Plan (RMP) for the Dutch Boy site.

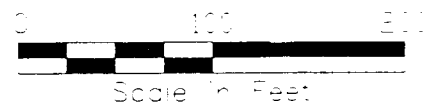
**SUMMARY OF SAMPLING PROGRAM  
DUTCH BOY SITE  
CHICAGO, ILLINOIS**

Sampling Location	Number of Samples	Comments
<p>On-site: Soil (See Figure 1)</p>	<p>288  (Assuming 3 samples per location where the boring is extended to the base of the fill, and 9 samples per location where the boring is extended to 5 feet below the base of the fill. Includes debris samples and samples to be sieved. Actual number of samples to be analyzed will be determined according to the protocol outlined in Chapter III of the SAP.)</p>	<p>35 soil borings will be extended to the base of the fill material. 19 soil borings will be extended to 5 feet below the base of the fill material. Samples will be collected from the upper 0-to-2-inch interval below ground surface at all locations. Additional samples will be collected at 1-foot intervals in those locations where the boring is extended below the base of the fill. Additional samples may be collected from other boring locations, depending on initial results. In addition, one sediment sample will be collected from the southeast corner of the sub-basement of the former mill building, and one soil sample will be collected from beneath the sub-basement of the former mill building.</p> <p>All samples will be analyzed for total lead. Certain samples will also be analyzed for volatile organic compounds (VOCs) and petroleum hydrocarbons (based on screening results), or asbestos. A subset of samples will also be analyzed for Toxicity Characteristic Leachate Procedure (TCLP) lead, depending on the results of the total lead analyses. Ten samples, selected at random, will be sieved and the fine and total fractions will be analyzed for total lead.</p>
<p>On-site: Debris (See Figure 1)</p>	<p>4</p>	<p>Samples will be collected from the debris pile on the former loading dock in the southwestern part of the site. Samples will be analyzed for TCLP lead and asbestos.</p>
<p>Off-site: Parkways (See Figure 2)</p>	<p>37</p>	<p>Samples will be collected along the parkways in the vicinity of the site from the 0-to-2-inch interval and analyzed for total lead. Additional samples (3 per location) will be collected at three locations where the soil boring will be extended to below the base of the fill material.</p>
<p>Off-site: Adjacent Properties (See Figure 3)</p>	<p>80  (includes samples to be sieved)</p>	<p>Samples will be collected on 100-foot radii extending out from the site in each of eight transects. Additional samples will be collected on 400-foot radii in each of four transects. Samples will be collected from the 0-to-2-inch interval and analyzed for total lead. An additional four samples will be collected at two locations where the soil boring will be extended to the base of the fill material. Ten samples, selected at random, will be sieved and the fine and total fractions will be analyzed for total lead.</p>



#### EXPLANATION

- ▲ Soil core to 5 feet below base of fill
- Soil core to base of fill
- ⚡ Soil core to base of fill; includes asbestos analysis
- Debris sample
- ⊕ Sediment sample
- Soil sample from below sub-basement



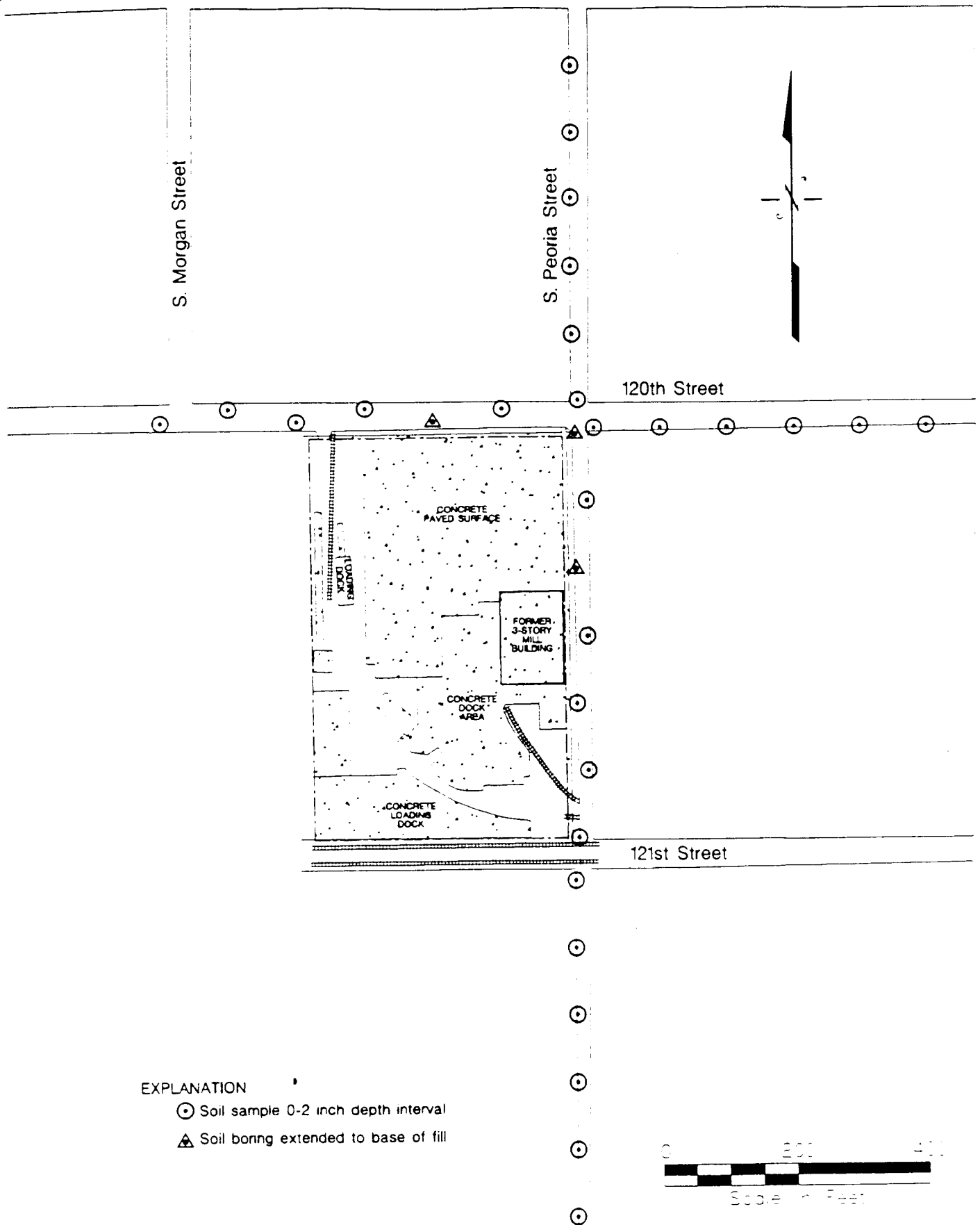
NOTE: Sampling intervals at each core location are detailed in report.  
10 samples will be selected at random, sieved (250 um), and the fine and total fractions analyzed for total lead.

**ENVIRON**

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ON-SITE SAMPLING LOCATIONS  
DUTCH BOY SITE  
CHICAGO, ILLINOIS

FIGURE 1

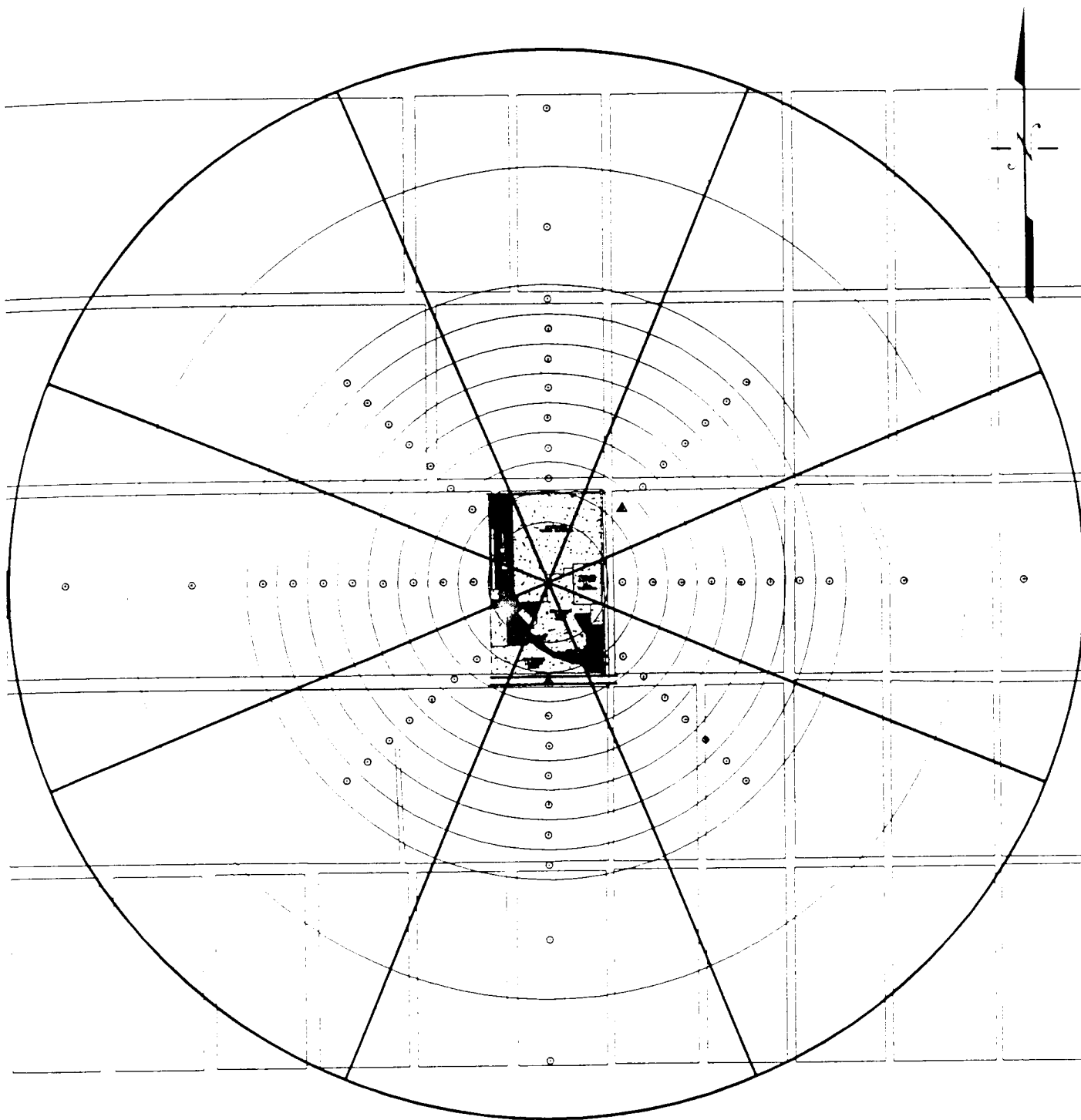


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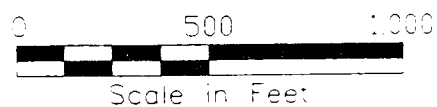
OFF-SITE PARKWAY SAMPLING LOCATIONS  
DUTCH BOY SITE  
CHICAGO, ILLINOIS

**FIGURE 2**



#### EXPLANATION

- Soil sample 0-2 inch depth interval location to be determined in field
- ▲ Soil boring to be installed to base of fill



NOTE: 10 samples will be selected at random, sieved (250 um), and the fine and total fractions analyzed for lead.

**ENVIRON**

OFF-SITE ADJACENT PROPERTY  
SAMPLING LOCATIONS  
DUTCH BOY SITE  
CHICAGO, ILLINOIS

**FIGURE 3**